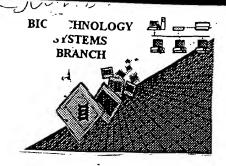
1108

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/978,	585
Source:	O IPE	
Date Processed by STIC:	11/2/01	* %

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

	ERROR DETECTE	SUGGESTED CORRECTION	SERIAL NUMBER:	091	978,	28-5
	ATTN: NEW RULES CAS	ES: PLEASE DISREGARD ENGLISH "ALPHA"	HEADEDS MANON NO.	<u> </u>		
	lWrapped Nuclei Wrapped Amino	ics I he number/text at the end of each line 'S.	101 1			
2Invalid Line Length The rules require that a line not exceed 72 characters in length. This is					naces	
	3Misaligned Amin Numbering	o The numbering under each 5 th amino acid is use space characters, instead.	misaligned. Do not use tab coo	les betwee	n numbers;	
	4Non-ASCII	The submitted file was not saved in ASCII(I ensure your subsequent submission is save	OOS) text, as required by the Sed in ASCII text.	equence R	ules. Picase	:
	5Variable Length	Sequence(s) contain n's or Xaa's represe each n or Xaa can only represent a single residue having variable length and indicate in	enting more than one residue. Presidue. Please present the may the <220>-<223> section that	er Sequen dimum nur some may	nce Rules, mber of each be missing.	1
	6PatentIn 2.0 "bug"	A "bug" in PatentIn version: 2.0 has caused the sequences(s) Normally, Paten previously coded nucleic acid sequence. Pleathe subsequent amino acid sequence. This appartificial or Unknown sequences.	tln would automatically general	uissing fron te this sect	n amino acid	i
7	7Skipped Sequences (OLD RULES)	(2) INFORMATION FOR SEQ ID NO:X: (in (i) SEQUENCE CHARACTERISTIC: (xi) SEQUENCE DESCRIPTION:SEQ ID NO This sequence is intentionally skipped	b: (Do not insert any subheading):X: (insert SEQ ID NO where	hown) gs under th "X" is sho	nis heading) wn)	
o	01:	Please also adjust the "(ii) NUMBER OF SEQ	UENCES:" response to include	the skipp	ed sequence	: S.
8	Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, p <210> sequence id number <400> sequence id number 000	lease insert the following lines	for each sl	cipped seque	ence.
9_	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in t Per 1.823 of Sequence Rules, use of <220>-<22 In <220> to <223> section, please explain local	175 - 1441	Xaa's are due n or)	present. Kaa represen	ts
10_	Invalid <213>	Per 1.823 of Sequence Rules, the only valid <2 scientific name (Genus/species). <220>-<223> is Artificial Sequence	125			
11_		Sequence(s) missing the <220> "Feat Use of <220> to <223> is MANDATORY if <2 "Unknown." Please explain source of genetic m (See "Federal Register," 06/01/1998, Vol. 63, N	ure" and associated numeric ide 13> "Organism" response is "A vaterial in <220> to <223> section 104, pp. 29631-32) (Sec. 1.	stificial Se	equence" or	
2	Patentin 2.0 [Please do not use "Copy to Disk" function of Pa resulting in missing mandatory numeric identifications. Instead, please use "File Manager" or a	tentIn version 2.0. This causes	a corrupted	d file,	· <i>)</i>
		AMC - Biotechnology Systems Branch		•		

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/978,585

DATE: 11/02/2001
TIME: 15:19:52

Input Set : A:\Seq_Listing_for_P2630P1C15.wpd
Output Set: N:\CRF3\11022001\1978585.raw

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               Baker Kevin P.
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                Botstein, David
       6
                Desnoyers, Luc
                                                              Corrected Diskette Needed
       7
               Eaton, Dan
       8
               Ferrara, Napoleon
                                                               Errors on PR 4+
       9
               Filvaroff, Ellen
      10
               Fong, Sherman
                                                                  Error pp. 1+2
      11
               Gao, Wei-Qiang
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               Gerber, Hanspeter
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               Gerritsen, Mary E.
      14
               Goddard, Audrey
      15
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      16
               Grimaldi, J. Christopher
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               Gurney, Austin L.
      18
               Hillan, Kenneth J
      19
               Kljavin, Ivar J.
      20
               Kuo, Sophia S.
     21
               Napier, Mary A.
     22
               Pan, James;
     23
               Paoni, Nicholas F.
     24
               Roy, Margaret Ann
     25
              Shelton, David L.
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              Stewart, Timothy A.
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              Tumas, Daniel
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PATENT APPLICATION: US/09/978,585

DATE: 11/02/2001 TIME: 15:19:52

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DATE: 11/02/2001 PATENT APPLICATION: US/09/978,585 TIME: 15:19:52

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PATENT APPLICATION: US/09/978,585

DATE: 11/02/2001 TIME: 15:19:52

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correct format is 1998-05-07; some errors on Lines 370+445

PATENT APPLICATION: US/09/978,585

DATE: 11/02/2001 TIME: 15:19:52

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Output Set: N:\CRF3\11022001\1978585.raw

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/978,585

DATE: 11/02/2001 TIME: 15:19:53

Input Set : A:\Seq__Listing_for_P2630P1C15.wpd

Output Set: N:\CRF3\11022001\I978585.raw

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 L:36 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:244 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:370 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:445 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
 \tt L\!:\!980~M\!:\!341~W\!: (46) "n" or "Xaa" used, for SEQ ID#:8
 L:992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
 L\!:\!1012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
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 L:1016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
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VERIFICATION SUMMARY

DATE: 11/02/2001

PATENT APPLICATION: US/09/978,585

TIME: 15:19:53

Input Set : A:\Seq__Listing_for_P2630P1C15.wpd

Output Set: N:\CRF3\11022001\1978585.raw

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L:6389 M:258 W: Mandatory Feature missing, <220> FEATURE:

L:6389 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

L:7713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191 L:7719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191

L:7729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191

L:8724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:215 L:10653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265

 $L\!:\!10655$ M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265

L:10657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265